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RICHARD M. SHARKANSKY RAYTHEON COMPANY PATENT DEPARTMENT 141 SPRING STREET

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

Note a	attached commun	ibation front il	ie Examiner -	•
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This notice is issued in view of applicant's communication	n filed
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SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS EXAMINER AND GROUP ART UNIT			DATE MAILED	
First Name@7/697, 830 Applicant	05/09/91	017	LOKE,	S	2508	04/03/92

TITLE OF INVENTION

HUANG,

JOHN C.

HIGH ELECTRON MOBILITY TRANSISTOR (AS AMENDED)

	ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2	35441	357-022.0	00 B6	4 UTILIT	Y NO	\$1130.00	07/06/92

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY Status shown above.
 - If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the Status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the Status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by a charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.
- III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees.



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SERIAL NUMBER FILING DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NO. 07/697,830 05/09/91 HUANG 35441 EXAMINER LOKE, S RICHARD M. SHARKANSKY ART UNIT PAPER NUMBER RAYTHEON COMPANY PATENT DEPARTMENT 141 SPRING STREET LEXINGTON, MA 02173 2508 DATE MAILED: 04/03/92

	NOTICE OF ALLOWABILITY				
PART	filed on				
2. 🔀	This communication is responsive to <u>amendment A I/10/92</u> All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.				
3. 🗷	The allowed claims are $\frac{1-17}{}$				
	The drawings filed on are acceptable.				
	Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [_] been received. [_] not been received. [_] been filed in parent application Serial No				
	Note the attached Examiner's Amendment.				
_	Note the attached Examiner Interview Summary Record, PTOL-413.				
	Note the attached Examiner's Statement of Reasons for Allowance.				
	Note the attached NOTICE OF REFERENCES CITED, PTO-892.				
10. ⊔	Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.				
FROM Extens 1. 2. 2. 3. 4. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	I. RETENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS. THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application, ions of time may be obtained under the provisions of 37 CFR 1.136(a). Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED. APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE DET THIS PAPER. Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. CORRECTION IS REQUIRED. has been approved by the examiner. CORRECTION IS REQUIRED. Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.				
Any re AND IS Attachr X Exam	iner's Amendment Notice of Informal Application, PTO-152				
_ Reas	niner Interview Summary Record, PTOL- 413 Notice re Patent Drawings, PTO-948 ons for Allowance Listing of Bonded Draftsmen use of References Cited, PTO-892 Other mation Disclosure Citation, PTO-1449				

PTOL-37 (REV. 4-89) *

USCOMM-DC 89-3789

ART UNIT 258

Art Unit 2508

Serial No. 07/697830

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Denis G. Maloney on 3/9/92.

In page 12, line 22 and page 13, line 17 of the specification, change "a" to --an n type--.

Claim 1, line 15, after "transistor", insert /, --.

Claim 2, line 5, after "material", insert -,--.

Claim 5, line 27, claim 6, line 3, claim 14, line 24, change "portion" to --region-

Claim 5, lines 20 and 23 change "second" to -first--.

Claim 5, line 29 and claim 6, line 6, charge "layers" to -- regions--.

Claim 10, line 10, change "a relatively lightly doped" to --

Claim 15, line 3, change "first" to --*hird--.

Any inquiry concerning this communication should be directed to Loke at telephone number (703) 308-4920.

Serial No. 07/697830

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Art Unit 2508

ROLF HILLE SUPERVISORY PATENT EXAMENER ART UNIT 250

sl March 09, 1992 J. L.